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TI Lubricating grease composition

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AB Thickeners for lubricating greases, present at 2-30 weight% (preferably 5-20 weight%) concentration, contain the reaction products of (a) a **monoamine** compound of formula R1NH2 (R1 is an unsatd. or saturated C6-20 alkyl or C6-10 aryl); (b) a diisocyanate compound of formula OCNR2NCO (R2 is a divalent C6-20 aryl); and (c) a diamine compound of formula H2NR3NH2 (R3 is a divalent C2-12 alkylene or C6-15 aryl). Thus, a mineral base oil was blended with 12 weight% of a thickener (prepared by reaction of oleyl amine 1.0, a 2,4- and 2,6-mixed tolylenediisocyanate 0.93, and ethylenediamine 0.44 mol) to obtain a lubricating grease having a dropping point of 262°, vs. 178° for a conventional thickener.